

10/526768

Fig. 1A

AKAP188**Amino acid sequence****M**ERPAAGEIDANKCDHLSRGEEGTGDLETSPV

GSLADLPFAAVDIQDDCGLPDVPQGNVPQGNPKRSKENRGDRNDHVKRK
KAKKDYQPNYFLSIPITNKKITAGIKVLQNSILRQDNRLTKAMVGDGSFH
ITLLVMQLLNEDEVNIGTDALLELKPFVEEILEGKHLTLFPFHGIGTFQGG
VGFVKLADGDHVSALLEIAETAARTFQEKILAGESRTFKPHLTFMKLSK
APMLWKKGVRKIEPGLYEQFIDHRFGEIILYQIDLCMSMLKKQSNFYHC
ESSIVIGEKRKEPEDAELVRLSKRLVENAVLKAVQQYLEETQNKQPGGE
GNSVKAEEGDRNGDGSNNRK

Nucleotide sequence (SEQ No. 1)**ATGG**AGCGCCCCCGCCGCGGGAGAAATAGATGCCAATAAGTGTGA

TCATTTATCAAGAGGAGAGGAAGGGACGGGGGACCTGGAGACCAGCCCTG
TAGGTTCTCTGGCAGACCTGCCGTTTGCTGCCGTAGACATTCAGATGAC
TGTGGACTCCCTGATGTACCTCAAGGAAATGTACCTCAAGGAAACCCAAA
GAGAAGCAAAGAAAATAGAGGCGACAGGAATGATCACGTGAAGAAGAGGA
AGAAGGCCAAGAAAGATTATCAACCCAACTATTTCTGTCCATTCCAATC
ACCAACAAAAAGATTACAGCTGGAATTAAAGTCTTGCAAAATTCGATACT
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ACATCACCTTGCTAGTGATGCAGCTATTAAACGAAGATGAAGTAAACATA
GGTACCGACGCGCTTTTGGAAGTGAAGCCGTTGTTGAGGAGATCCTTGA
GGGGAAGCATCTGACTTTGCCCTTCACGGGATTGGCACTTTCCAAGGTC
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GCGAGTCTTCGATCGTGATCGGTGAGAAGGACCGAAAGGAGCCTGAGGAT
GCTGAACTGGTCAAGCTCAGTAAGAGGCTGGTGGAGAACCCGTGCTCAA
GGCTGTCCAGCAGTACCTAGAAGAGACACAGAAACAAAAGCAGCCGGGGG
AGGGGAACCTCCGTCAAAGCTGAGGAGGGAGATCGGAATGGCGATGGCAGT
GATAACAACCGGAAGTGA

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Fig. 2: Interaction of AKAP188-CFP
and RII α -YFP

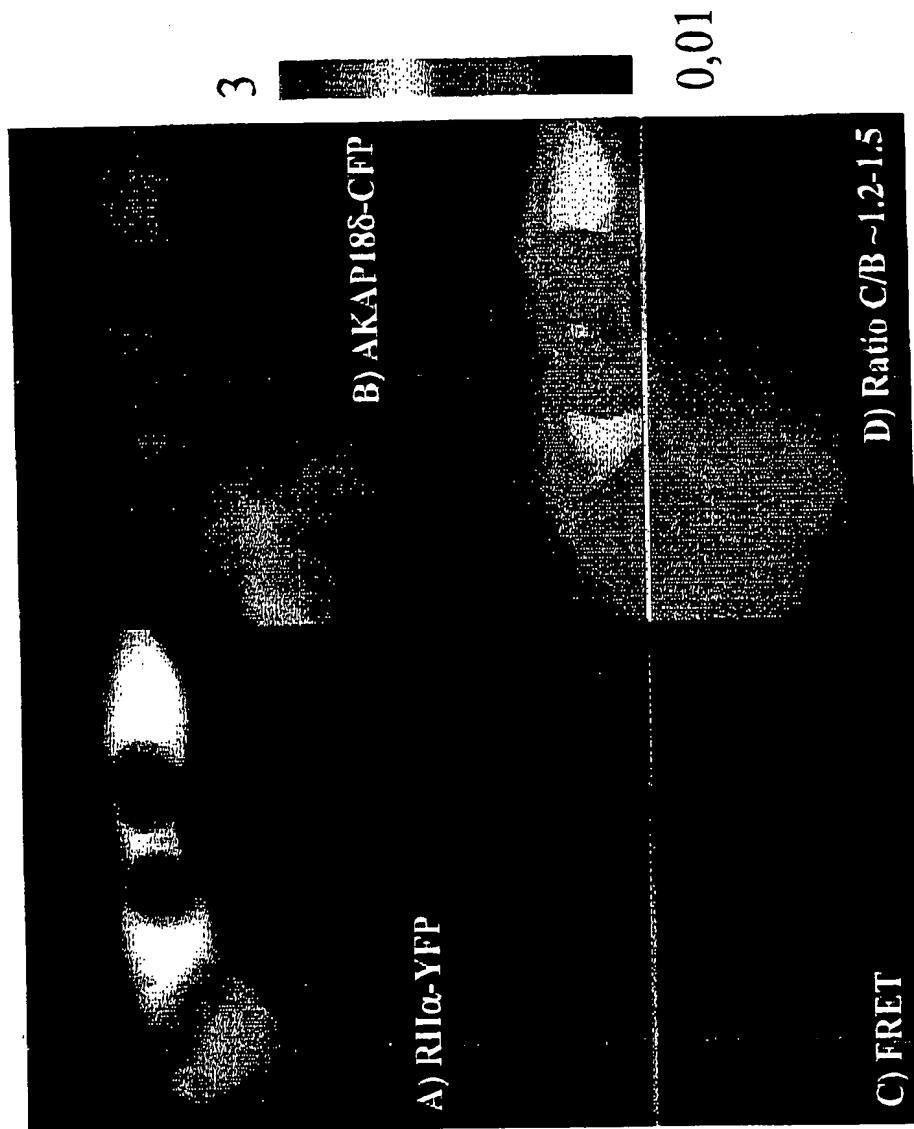


Fig. 3: *Fluorescent Resonance Energy Transfer (FRET)*
between AKAP188-CFP and RII α -YFP

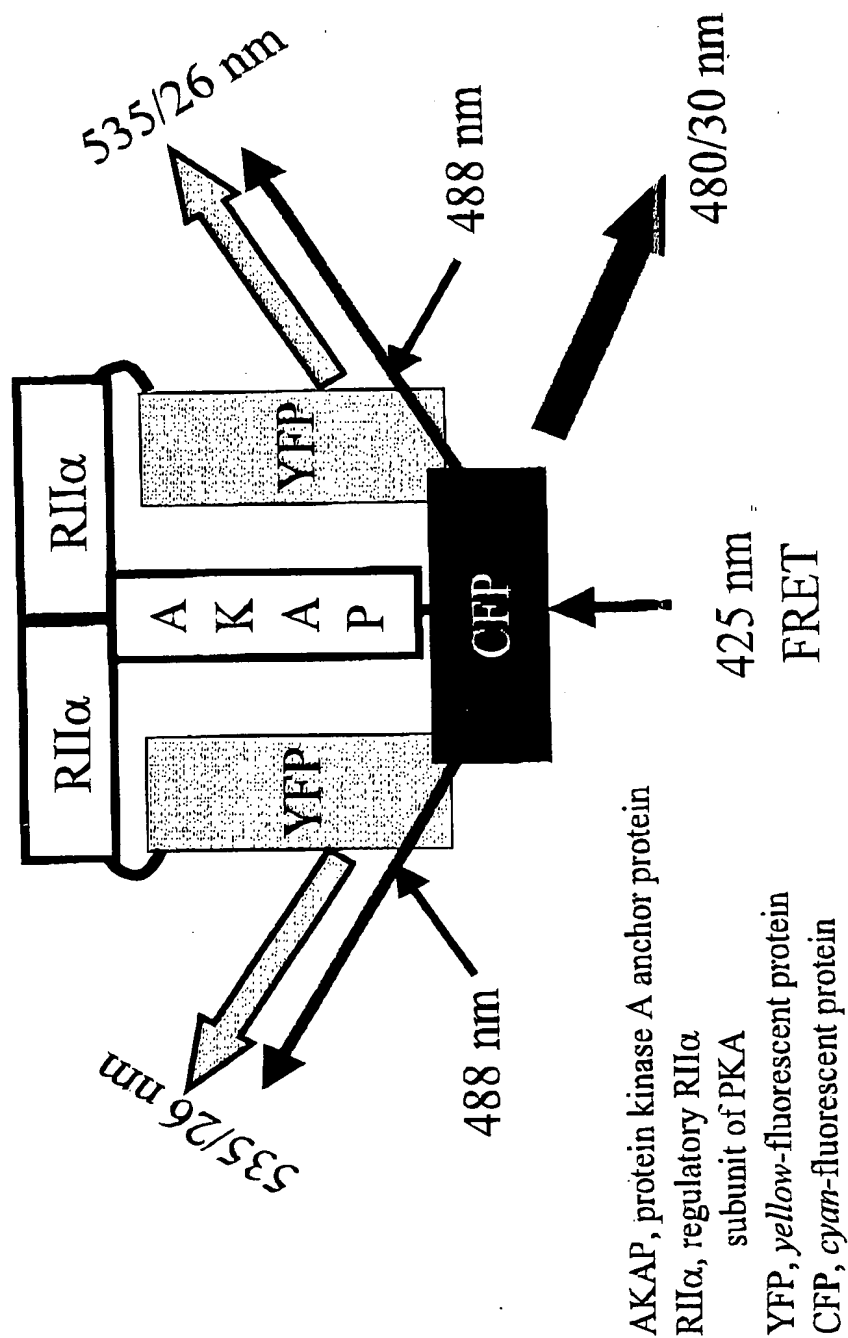


Fig. 4A

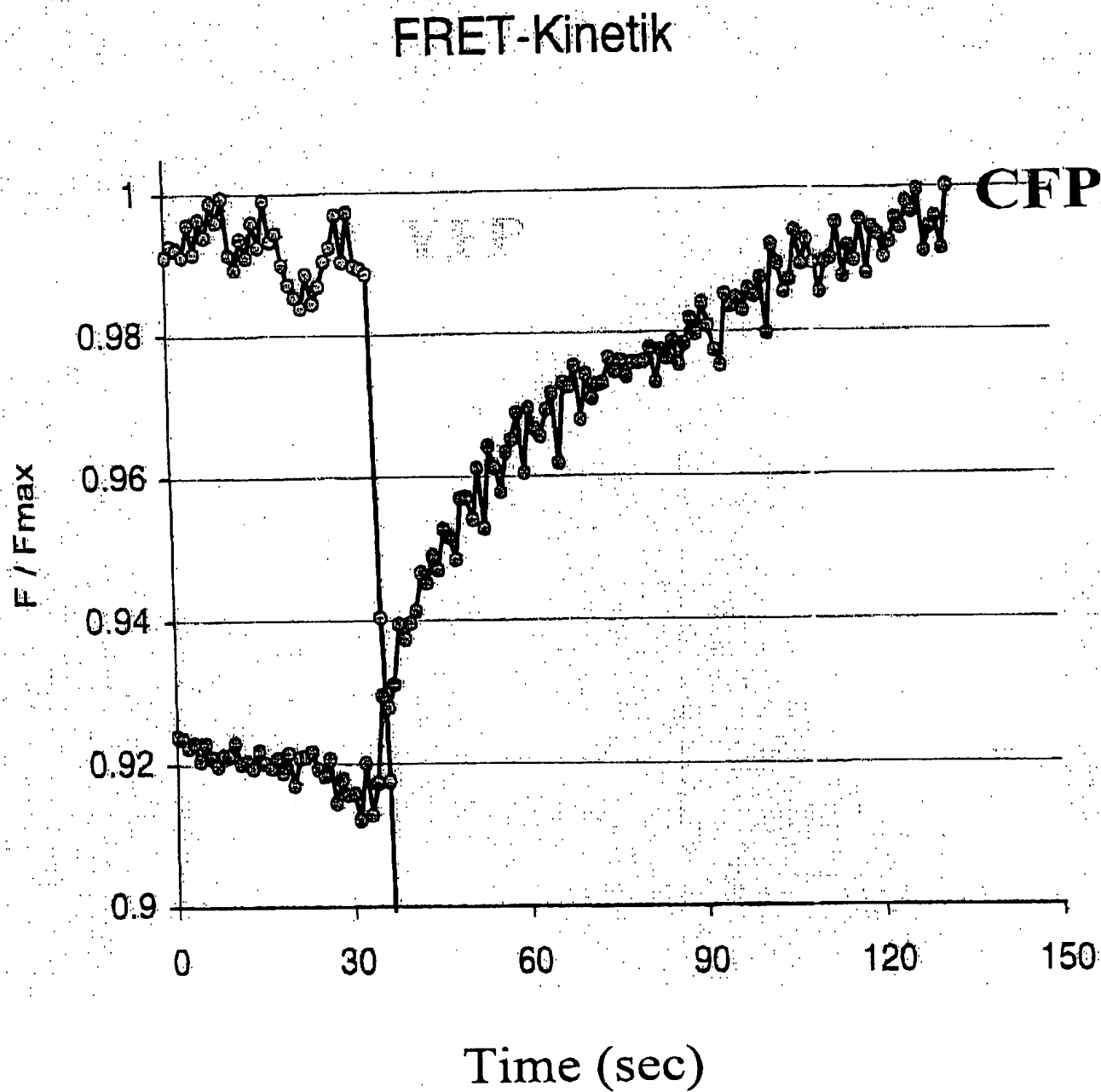


Fig. 4B

Bleaching of acceptor YFP (RII α -YFP) results in an increase of fluorescence emitted by donor CFP (AKAP18 δ -CFP)

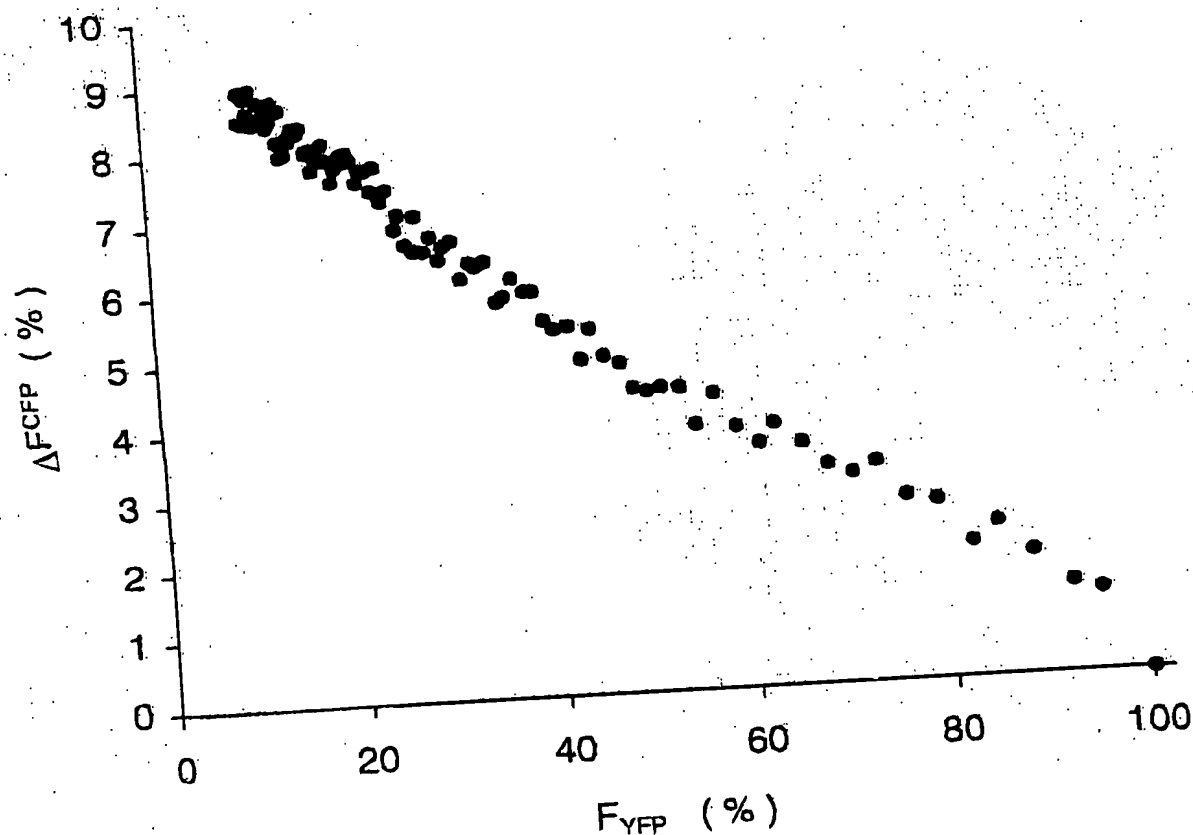


Fig. 5A: Inhibition of interaction of
AKAP18 δ -CFP and RII α -YFP by peptide S-Ht31

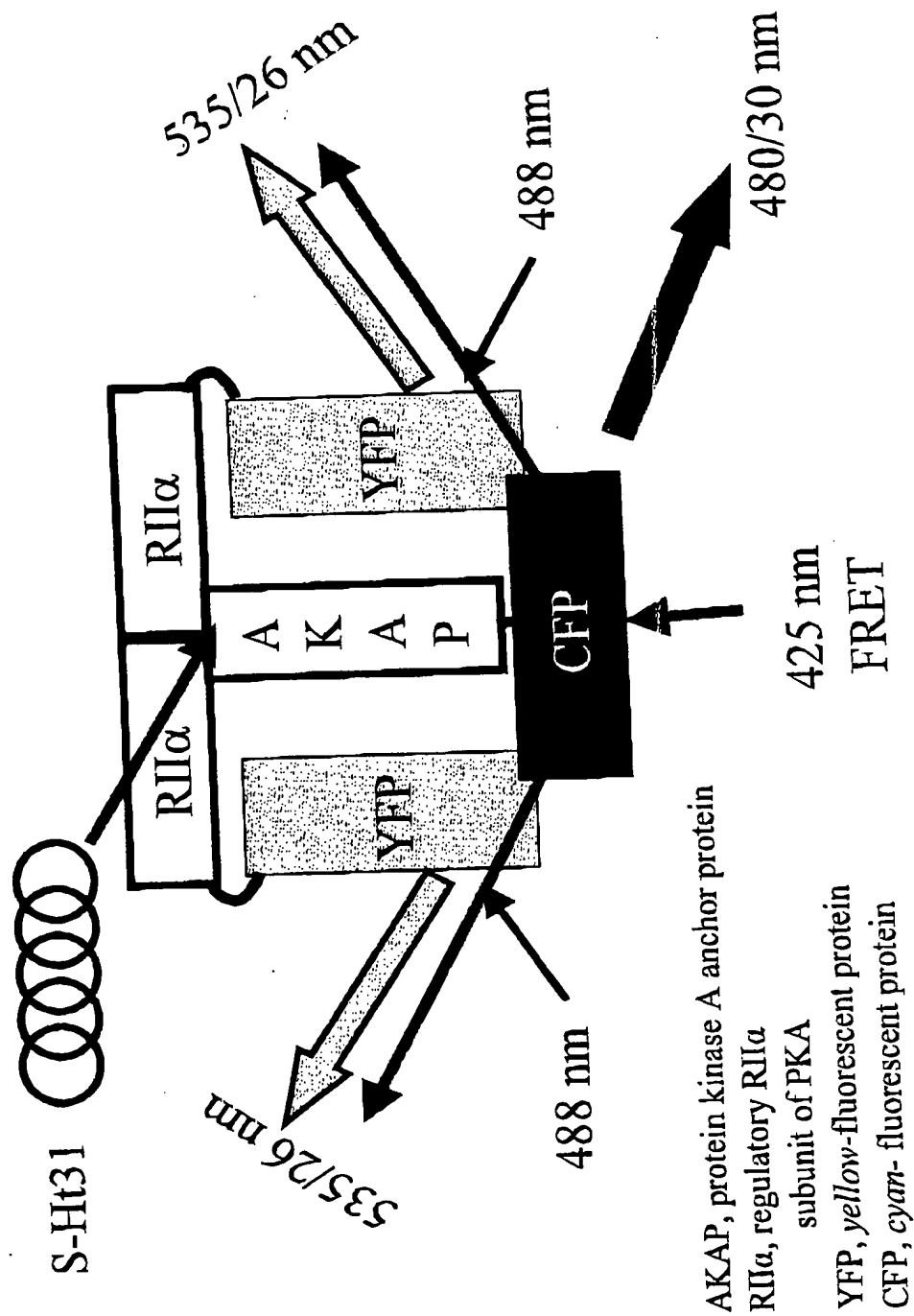


Fig. 5B: Result of inhibition of interaction between AKAP18δ-CFP and RIIα-YFP by S-Ht31

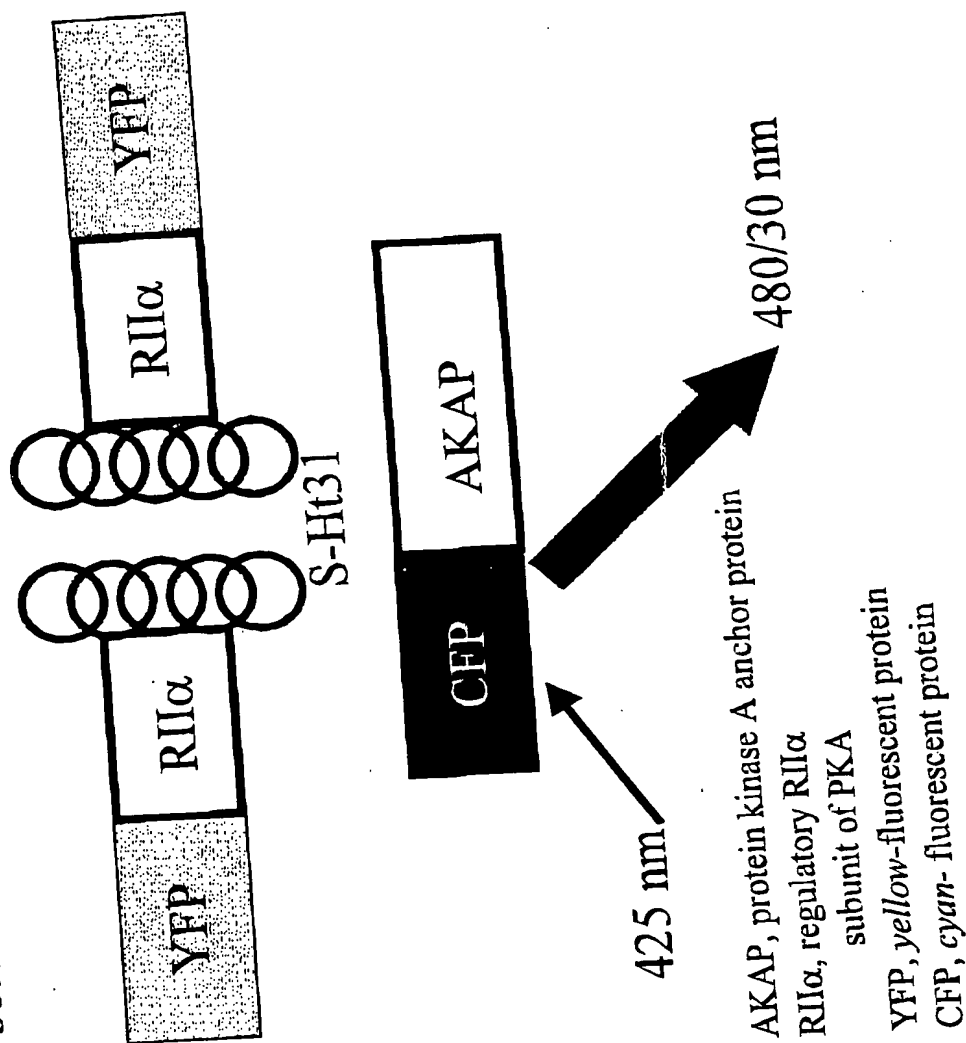


Fig. 6A: Inhibition of interaction of AKAP188-CFP and RII α -YFP by peptide S-Ht31 – decrease of FRET signal

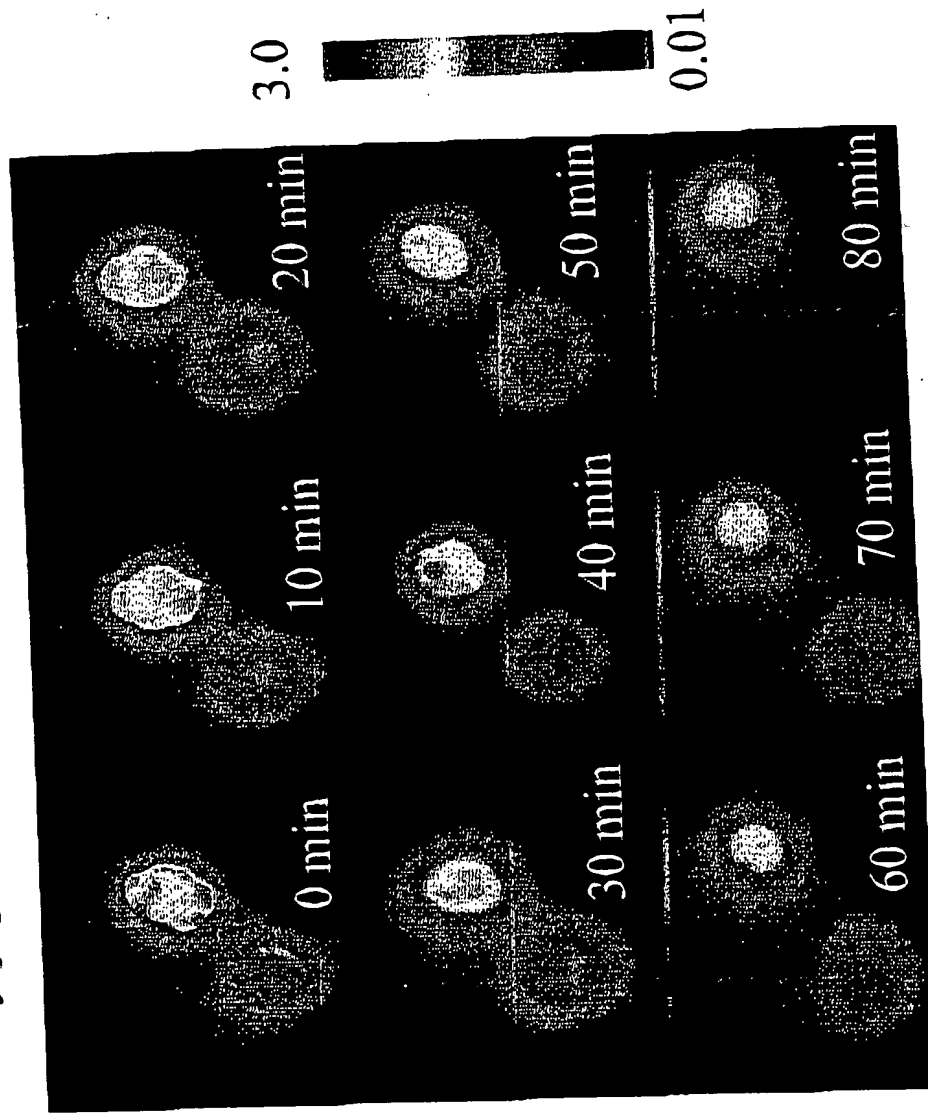


Fig. 6B: Peptide S-Ht31-P fails to inhibit interaction of
AKAP18 δ -CFP and RII α -YFP
- no decrease of FRET signal

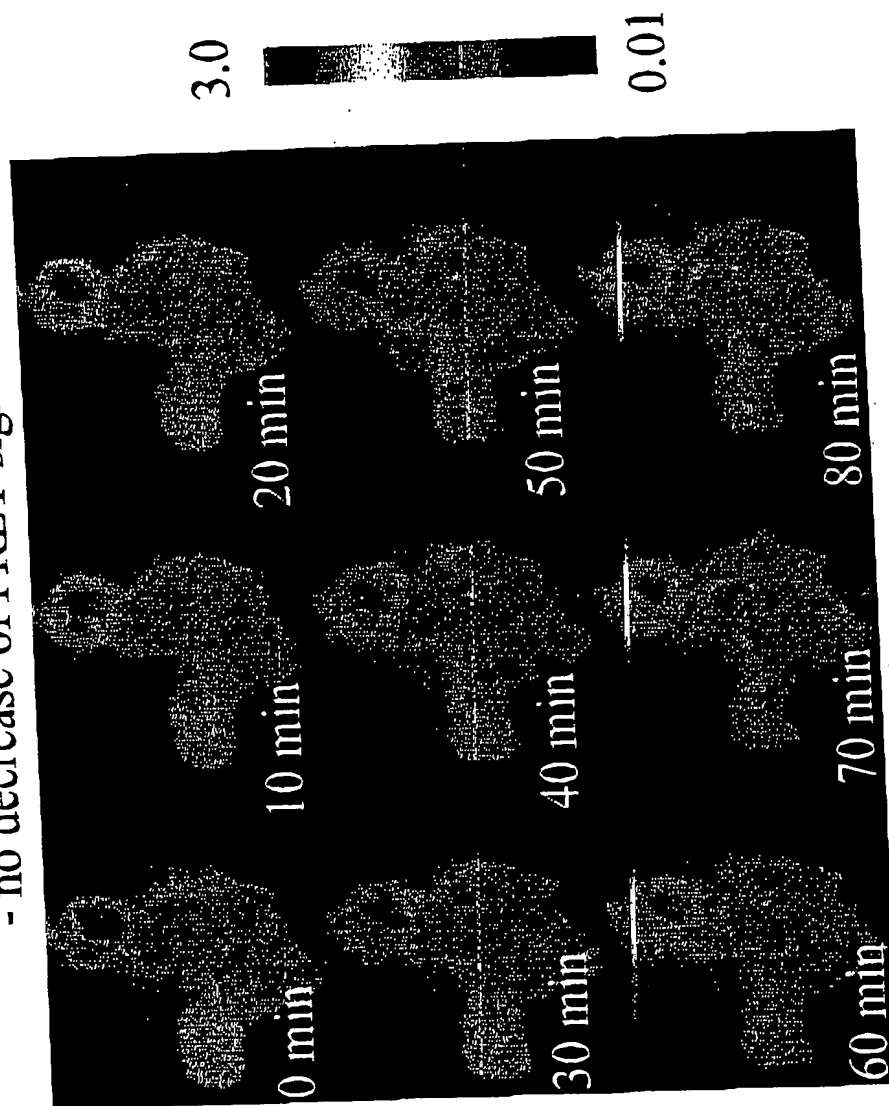
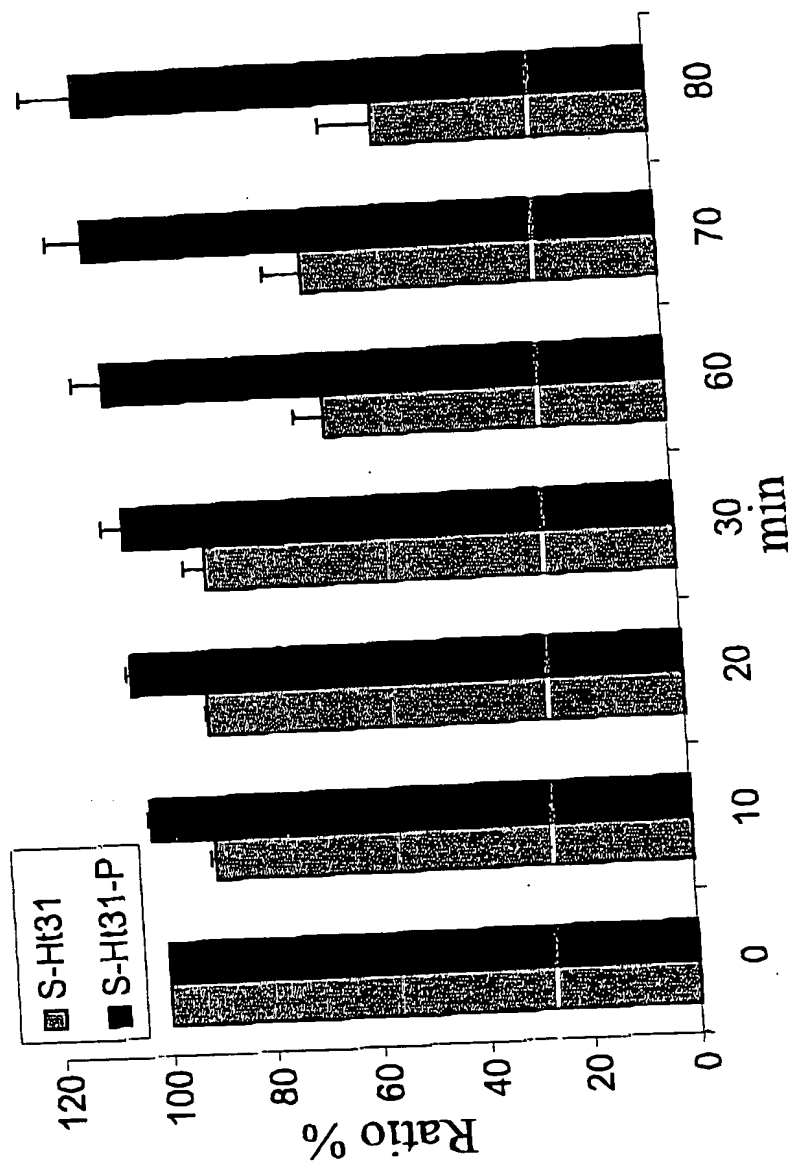


Fig. 6C: Changes in FRET signals (ratio 535/480) of AKAP188-CFP and RII α -YFP in HEK293 cells in the presence of peptides S-Ht31 and S-Ht31-P



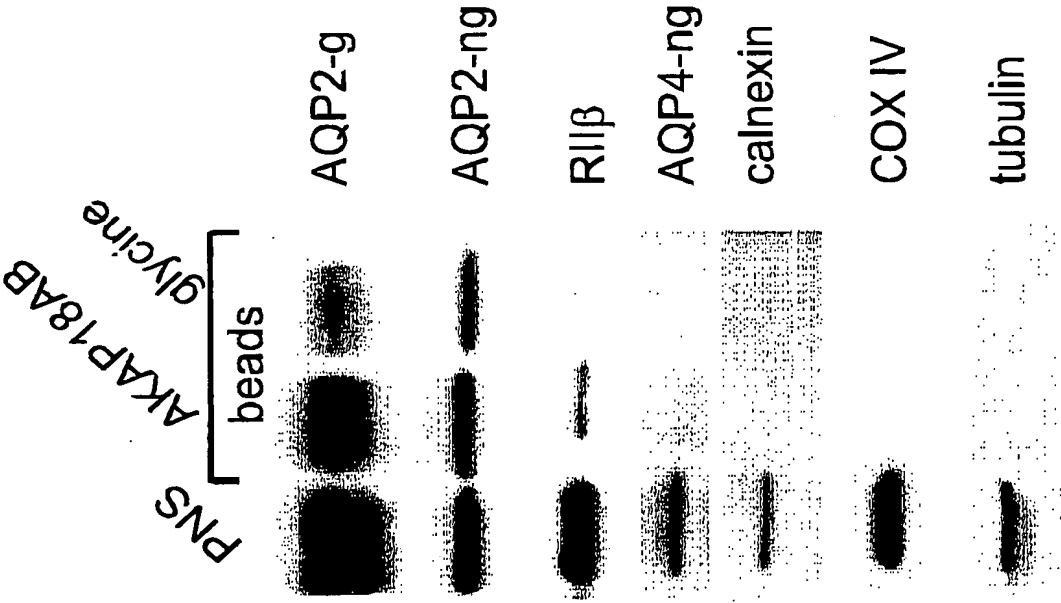
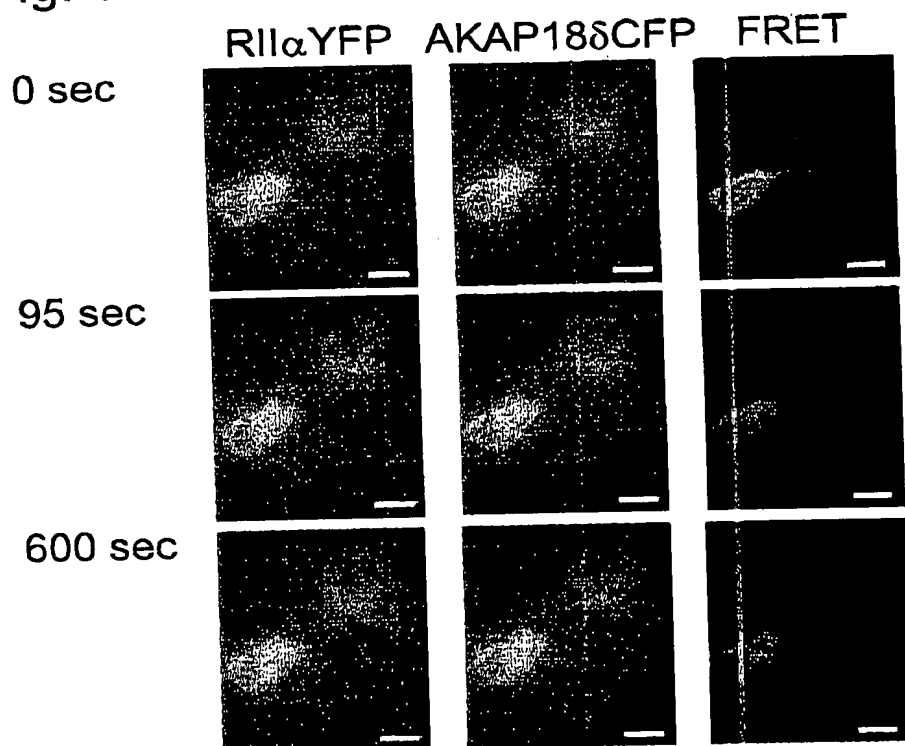
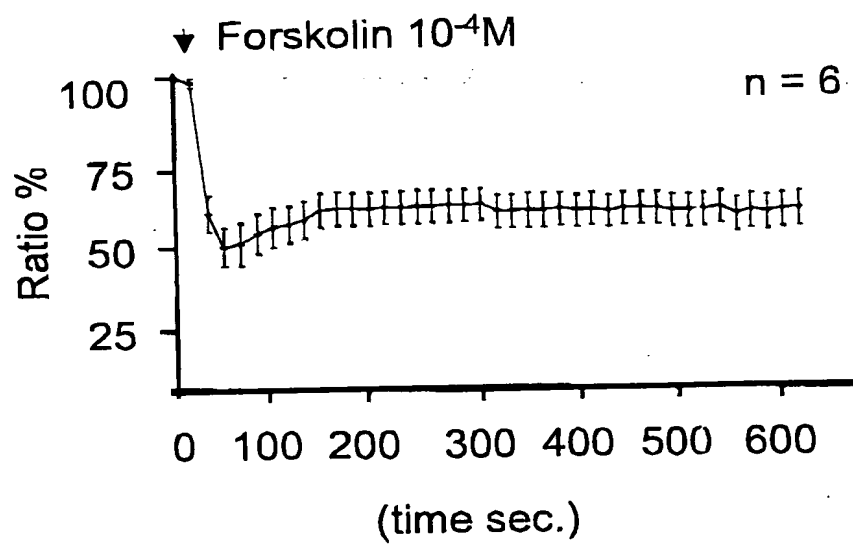


Fig. 7

Fig. 8A



B



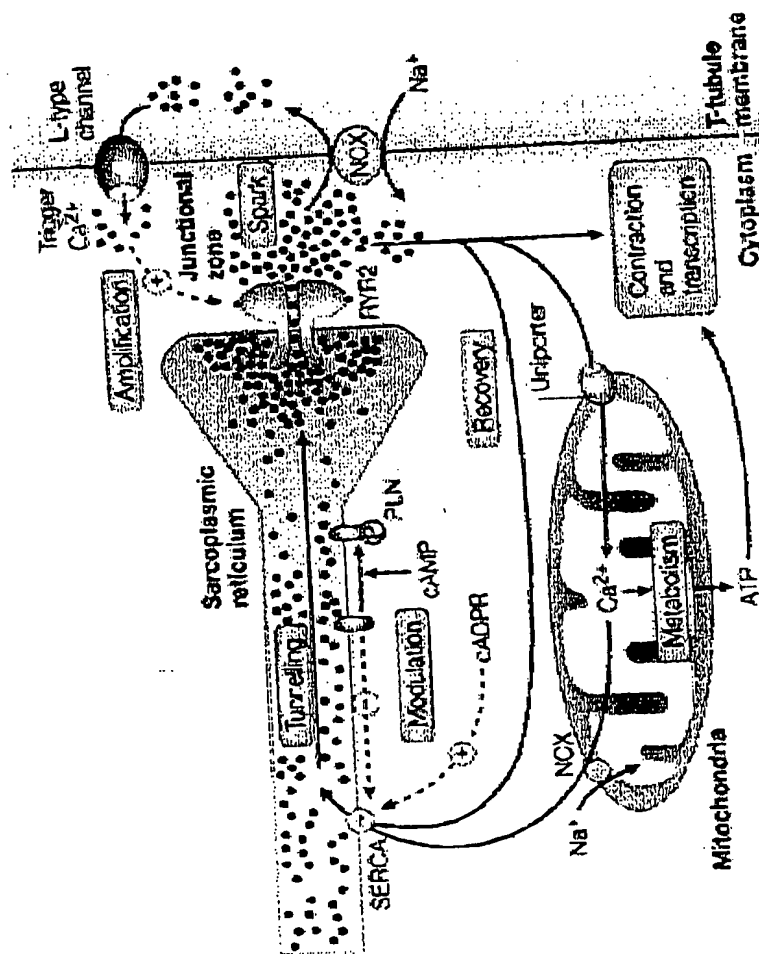
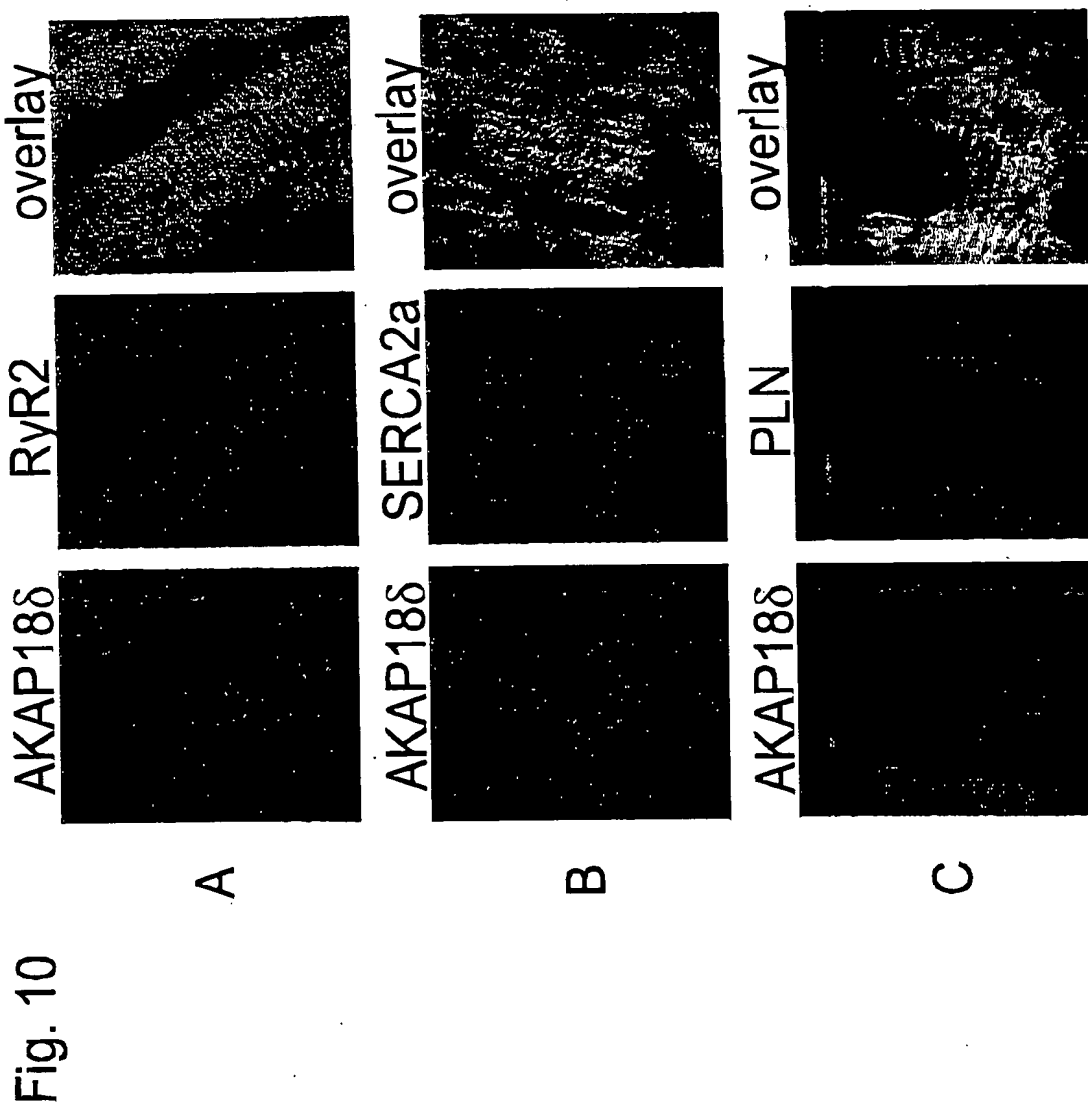


Fig. 9

10/526768



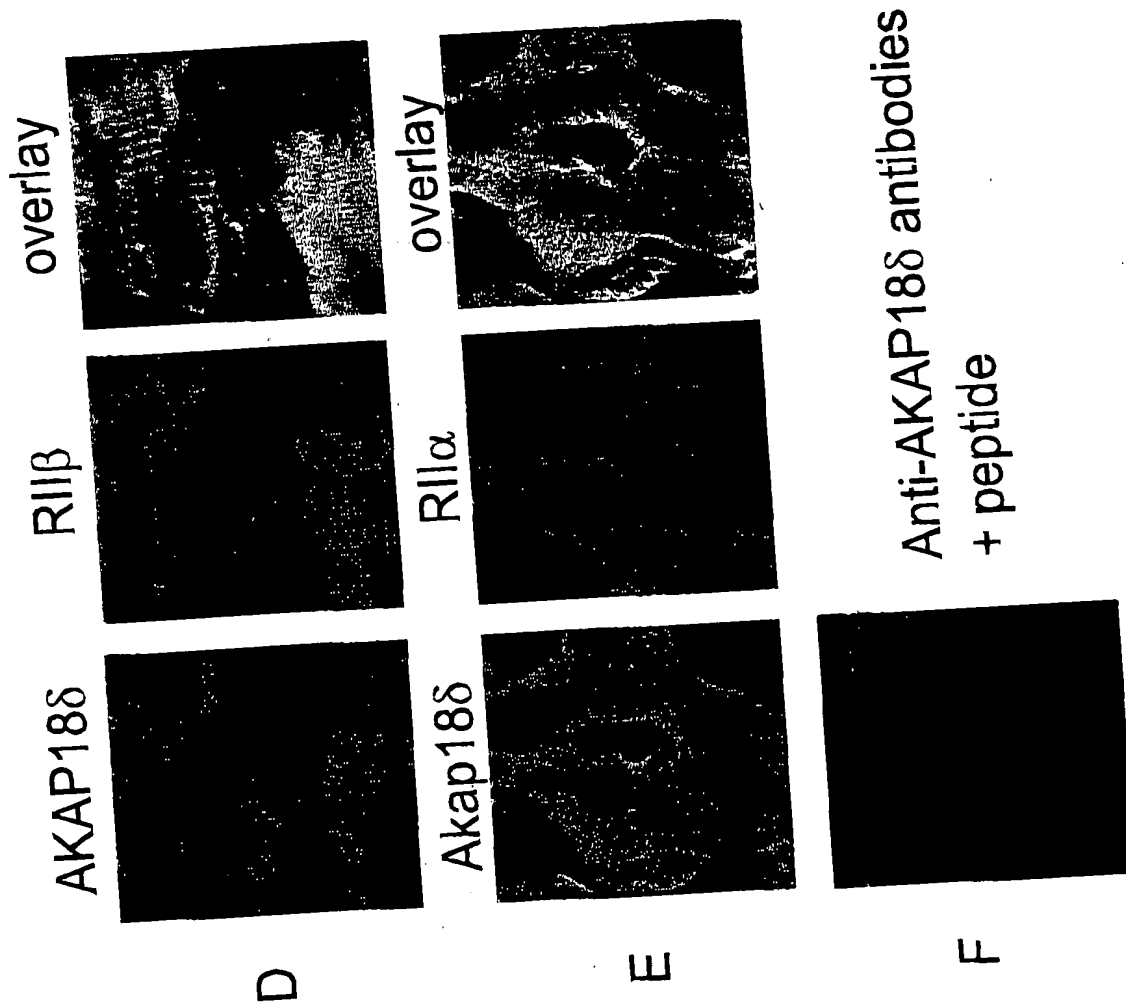


Fig. 10

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